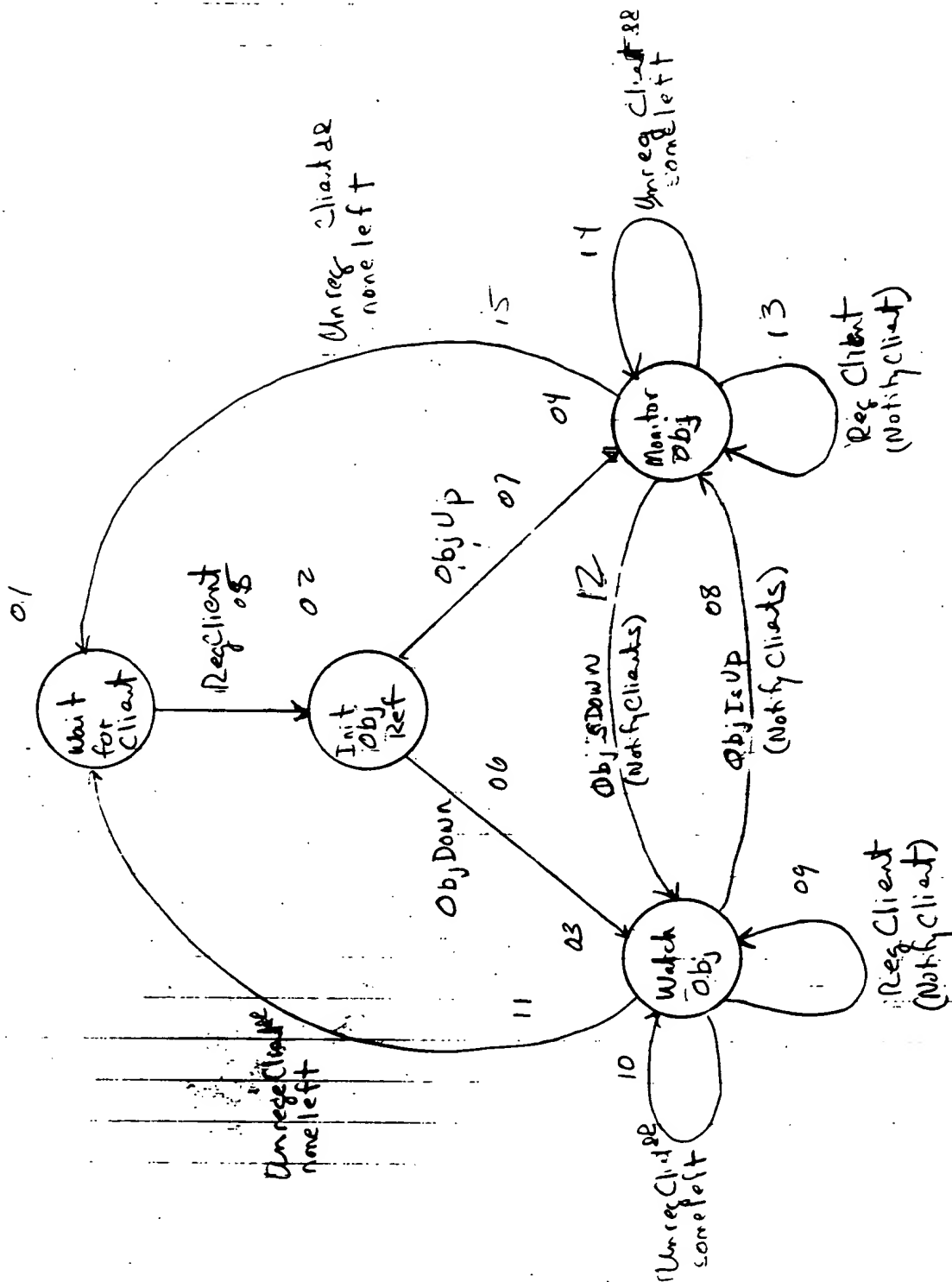


00000000000000000000000000000000

Li[∞]

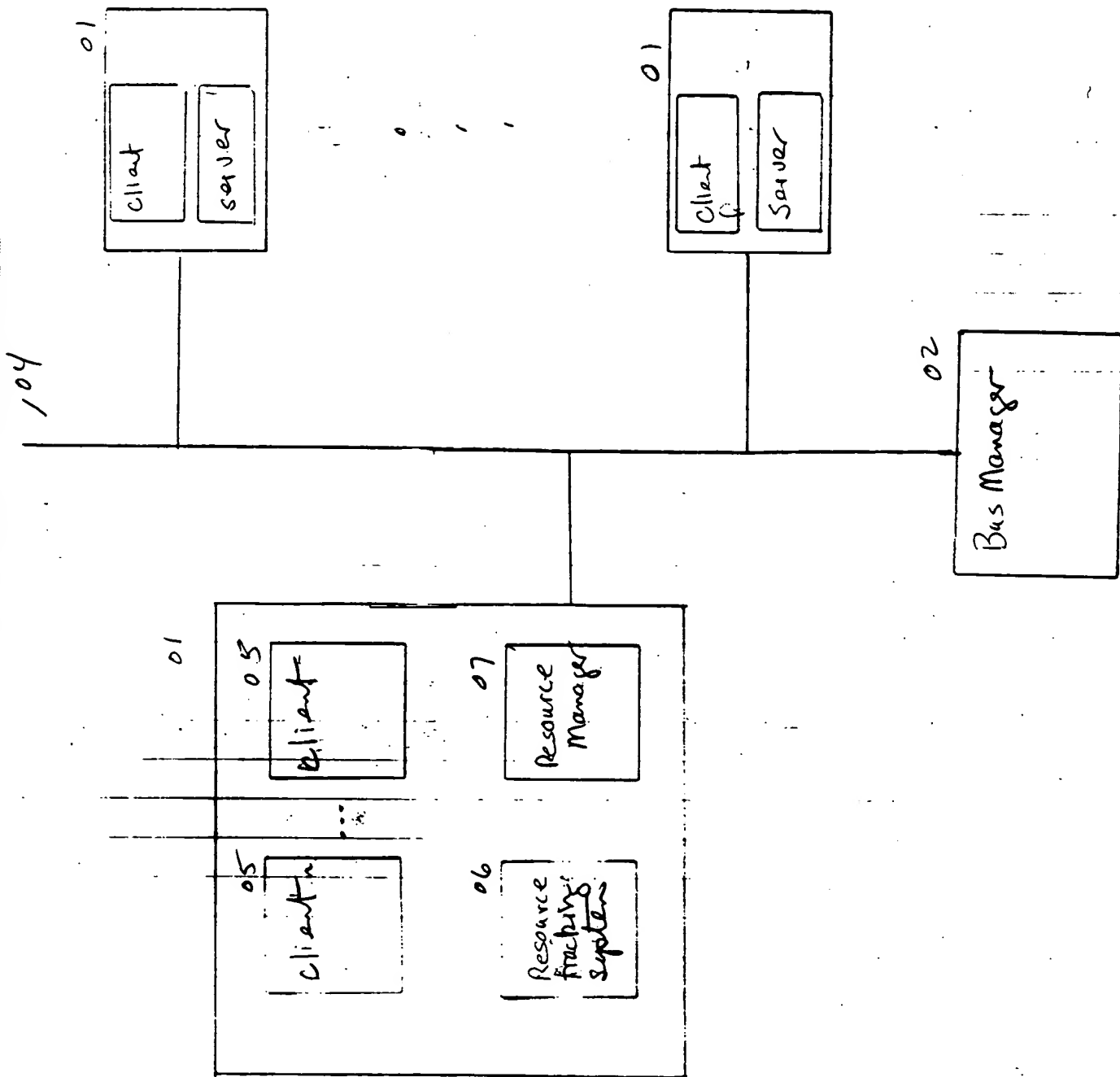


Fig 2

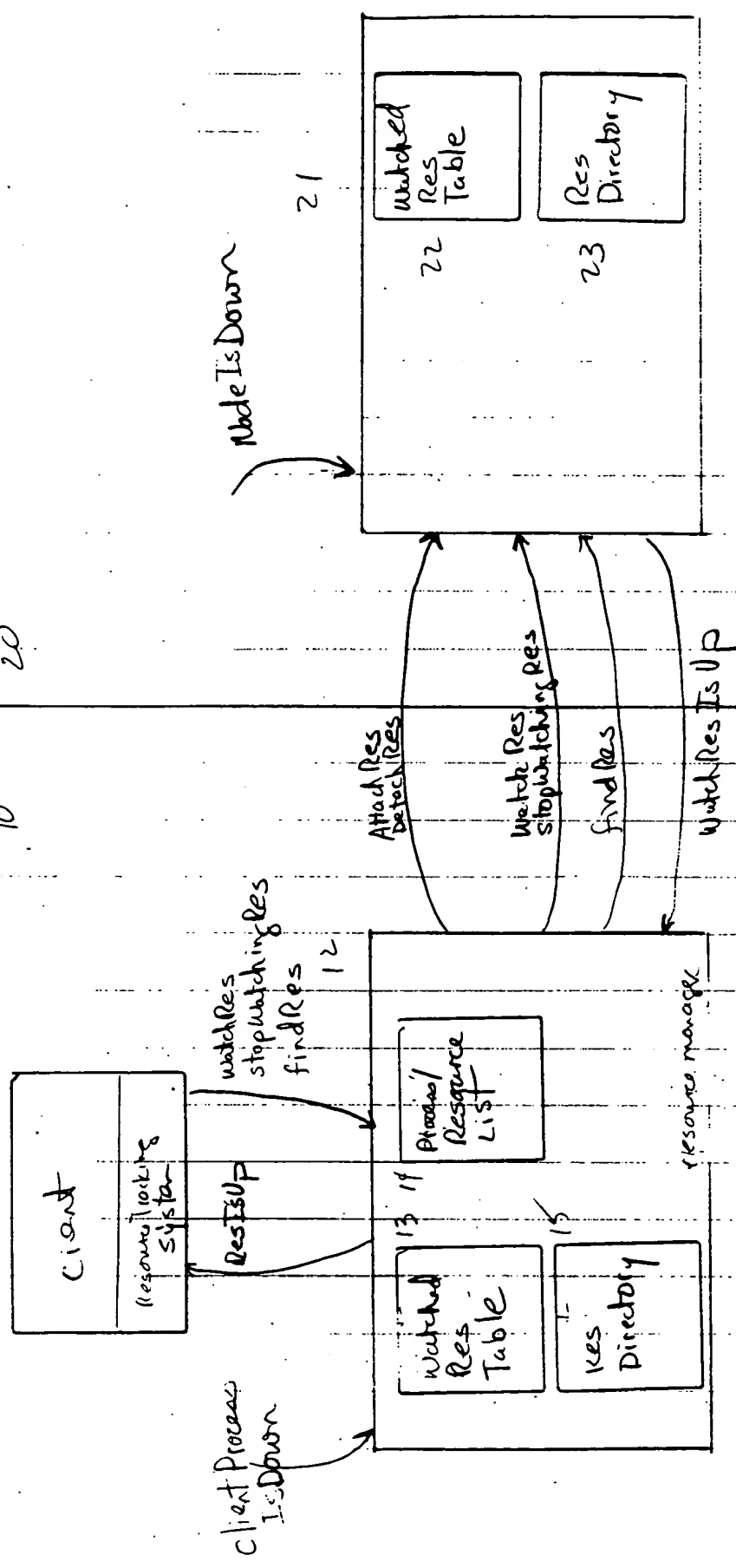


Fig 2B

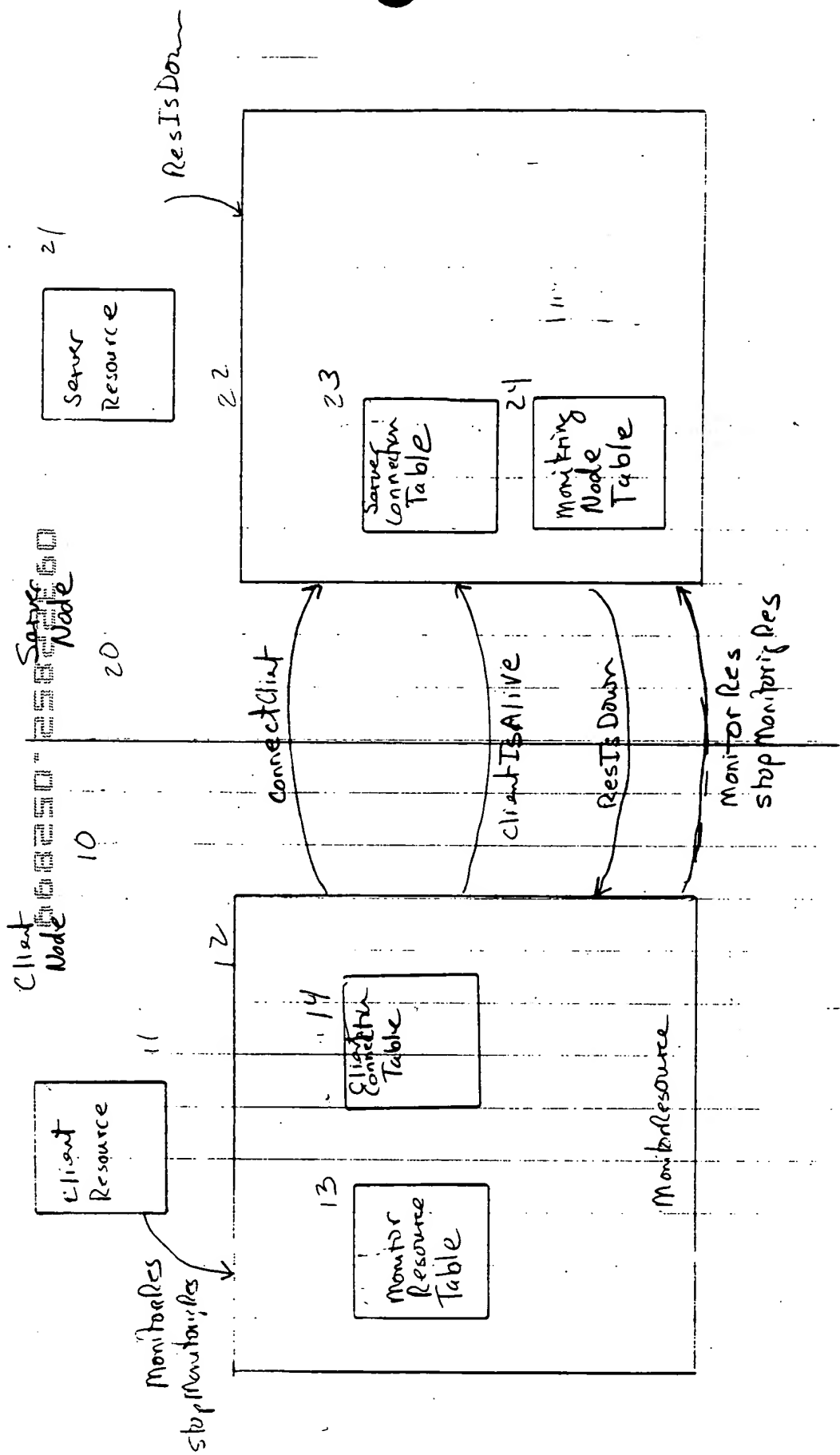
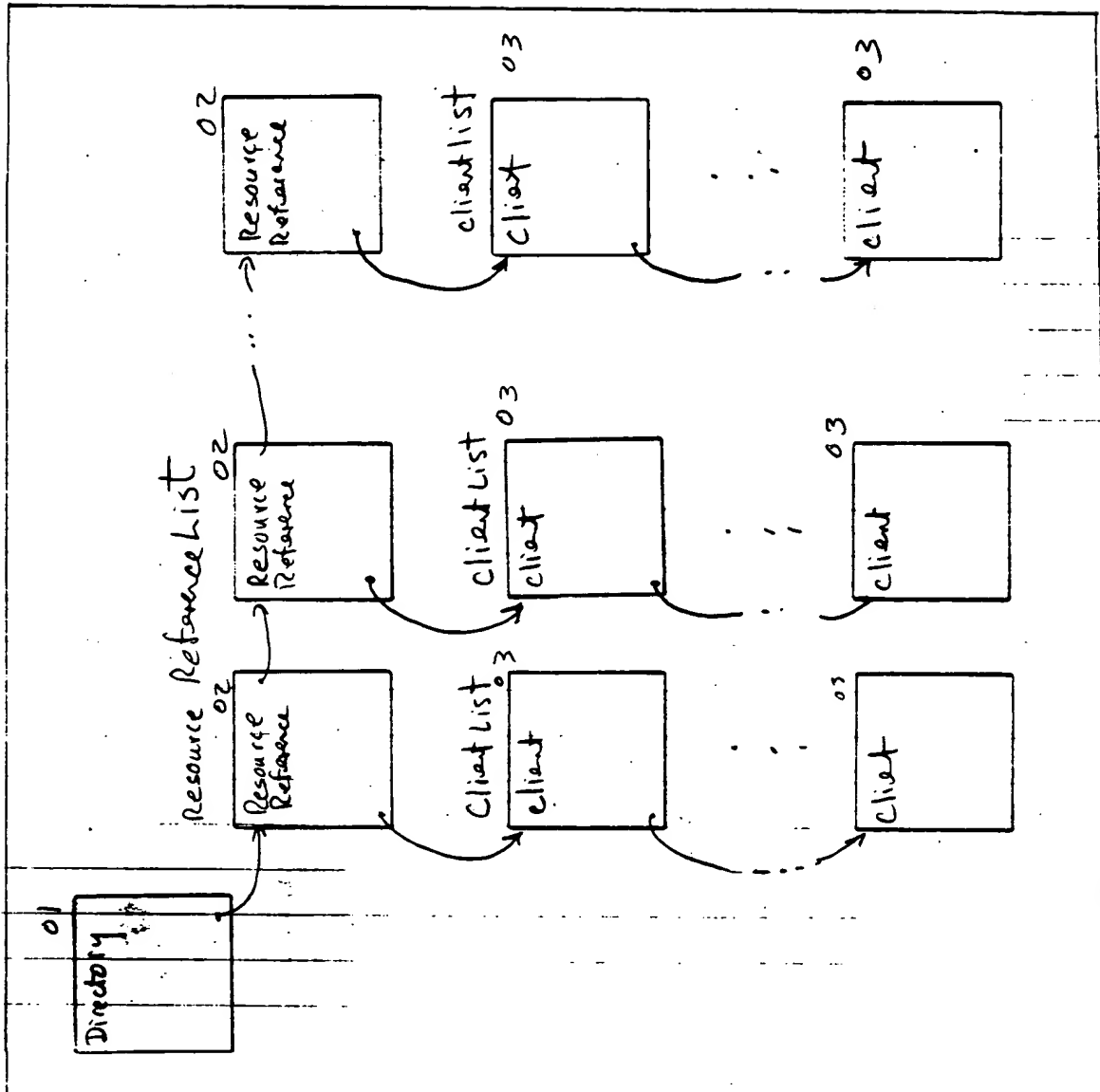


Fig. 2C



Resource Manager

02 Directory: Watch Res	03 Directory: Stop Watching Res	01b Monitor Resource	01a Watch Resource
04 Directory: Monitor Res	05 Directory: Stop Monitoring Res		
06 Directory: find Res	07 Directory		

Fig 4

Directory Object

addNewResClient
resIsUp
resIsDown
busStateCharged
reviductorRefs
clearInitialBlock
goingAway
monitorRes
stopMonitoringRes
watclRes
stopWatchingRes
findRes

h li

Resource Reference Object

myClientList	getRefCountedPtr
myResName	down
myResPtr	up
myResCreateTime	add
myQueue	init
myIsProcessing	deleteYourself
myDirPtr	goingAway
myRescInstId	clearClients
	processEventsAndFreeLock
	sendEventAndProcess
	processResIsUpMsg
	processResIsDownMsg
	processResInitMsg
	tellClientsResIsUp
	tellClientsResIsDown
	processClients

Fi-8

66850" 25822E60

Client Object

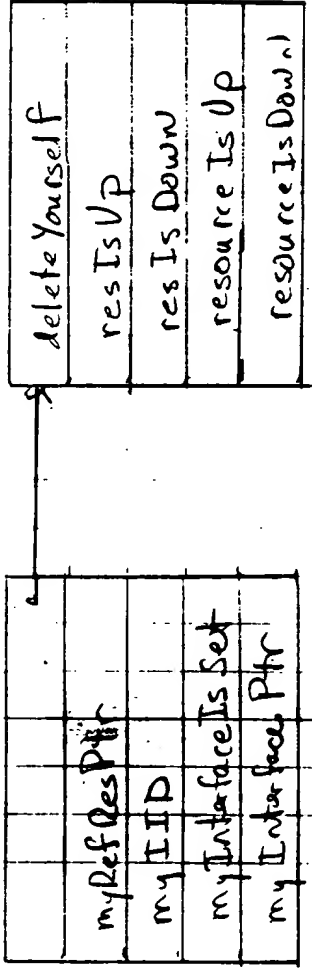


Fig 7

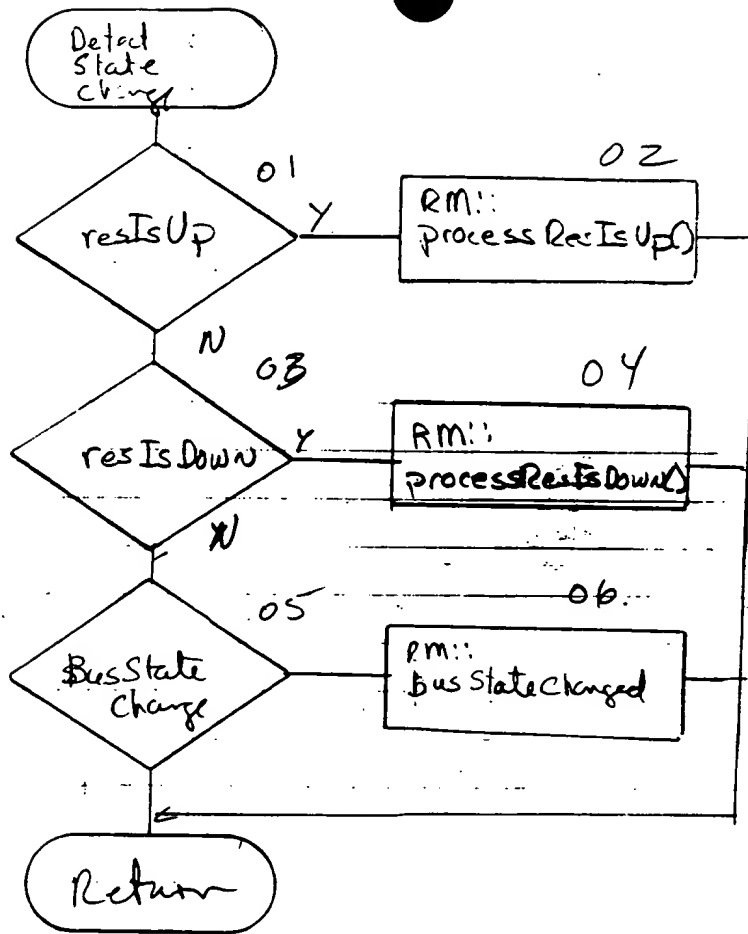


Fig 8

00322852.052300

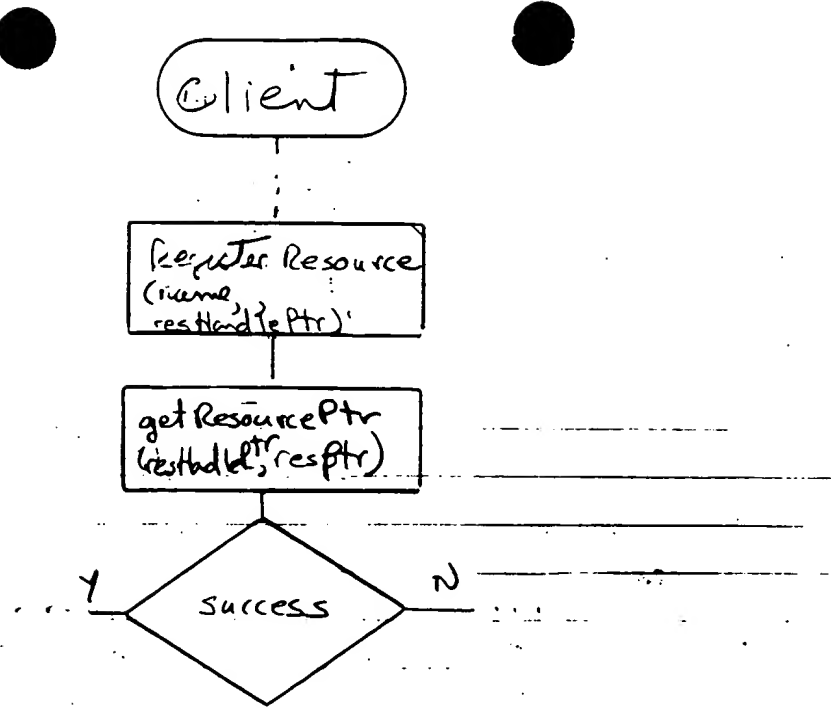


Fig 10

0032813.052800

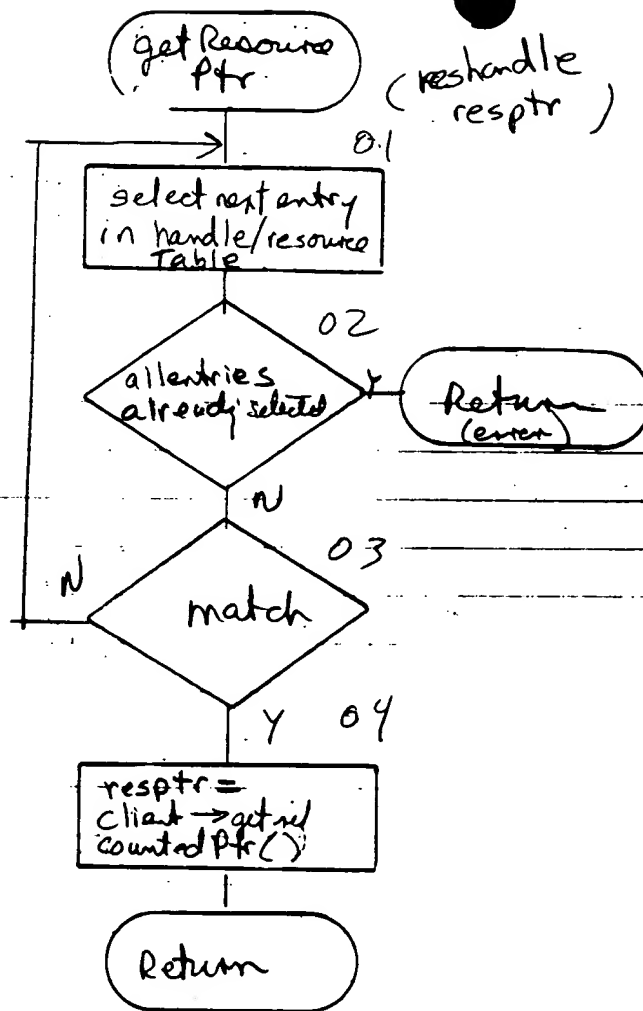


Fig 12

00322550-053090

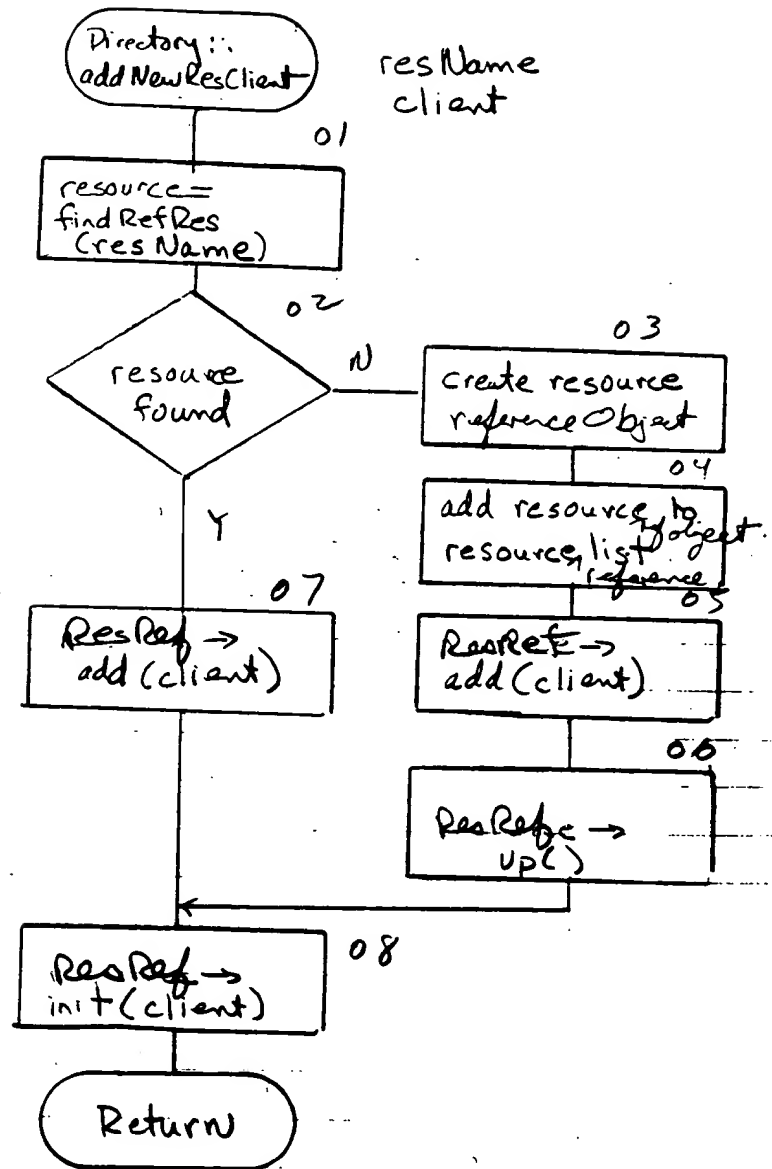


Fig 14

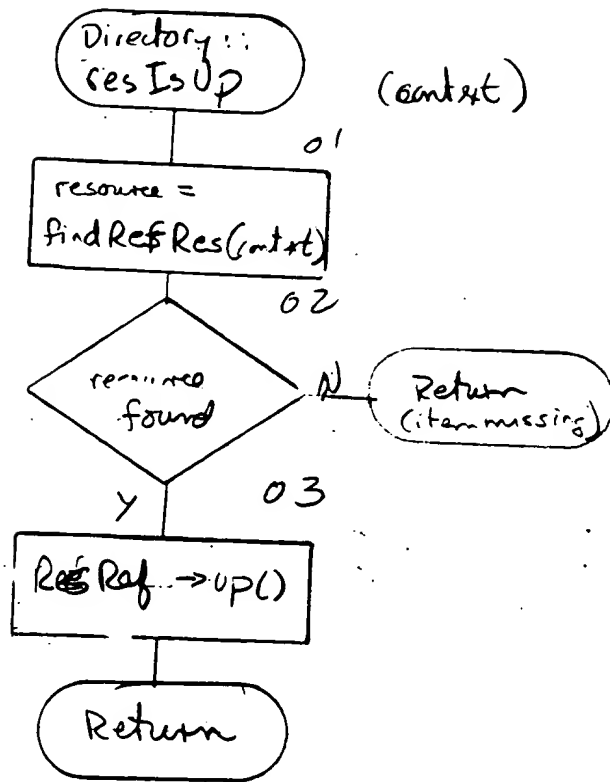


Fig 15

SECRET

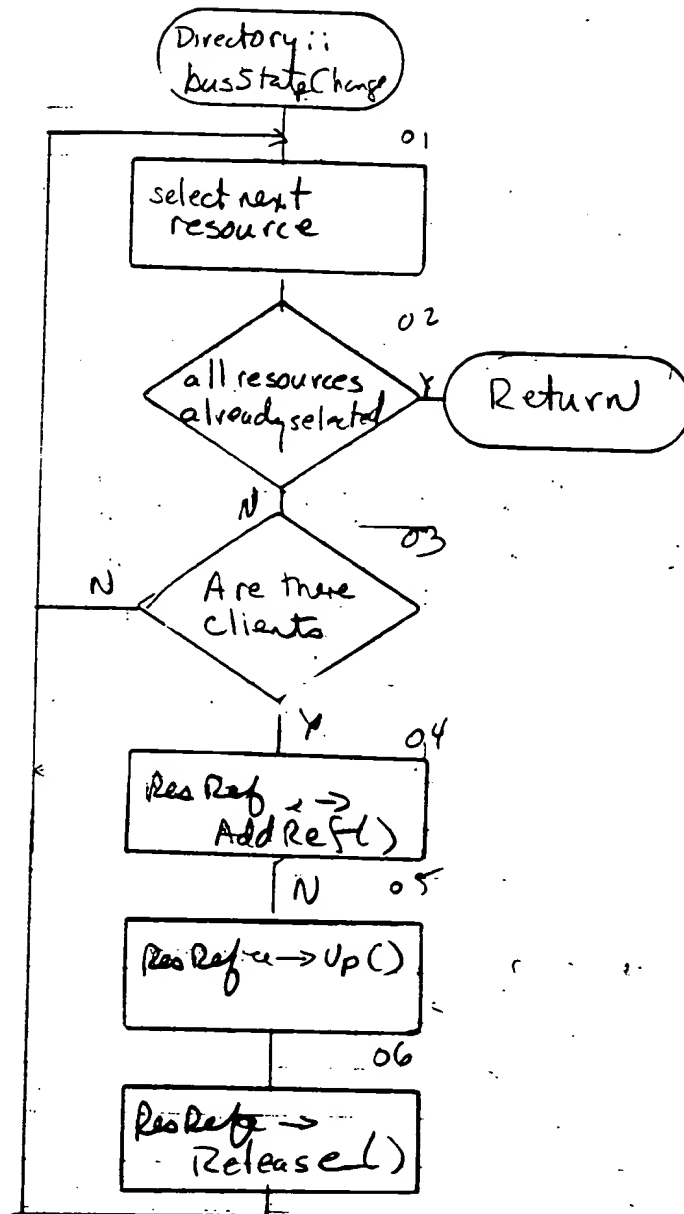


Fig 16

000000-050000

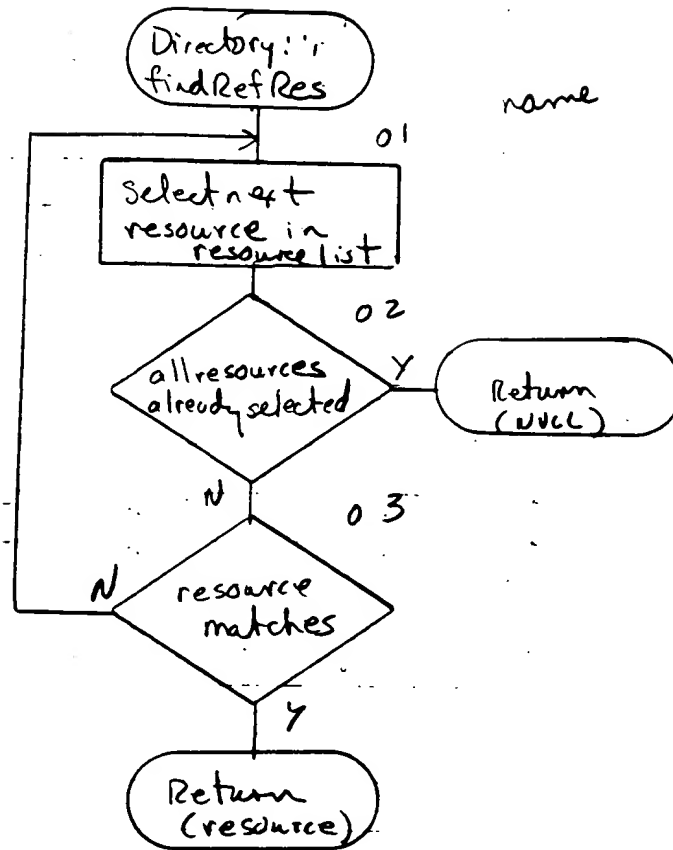


Fig 17

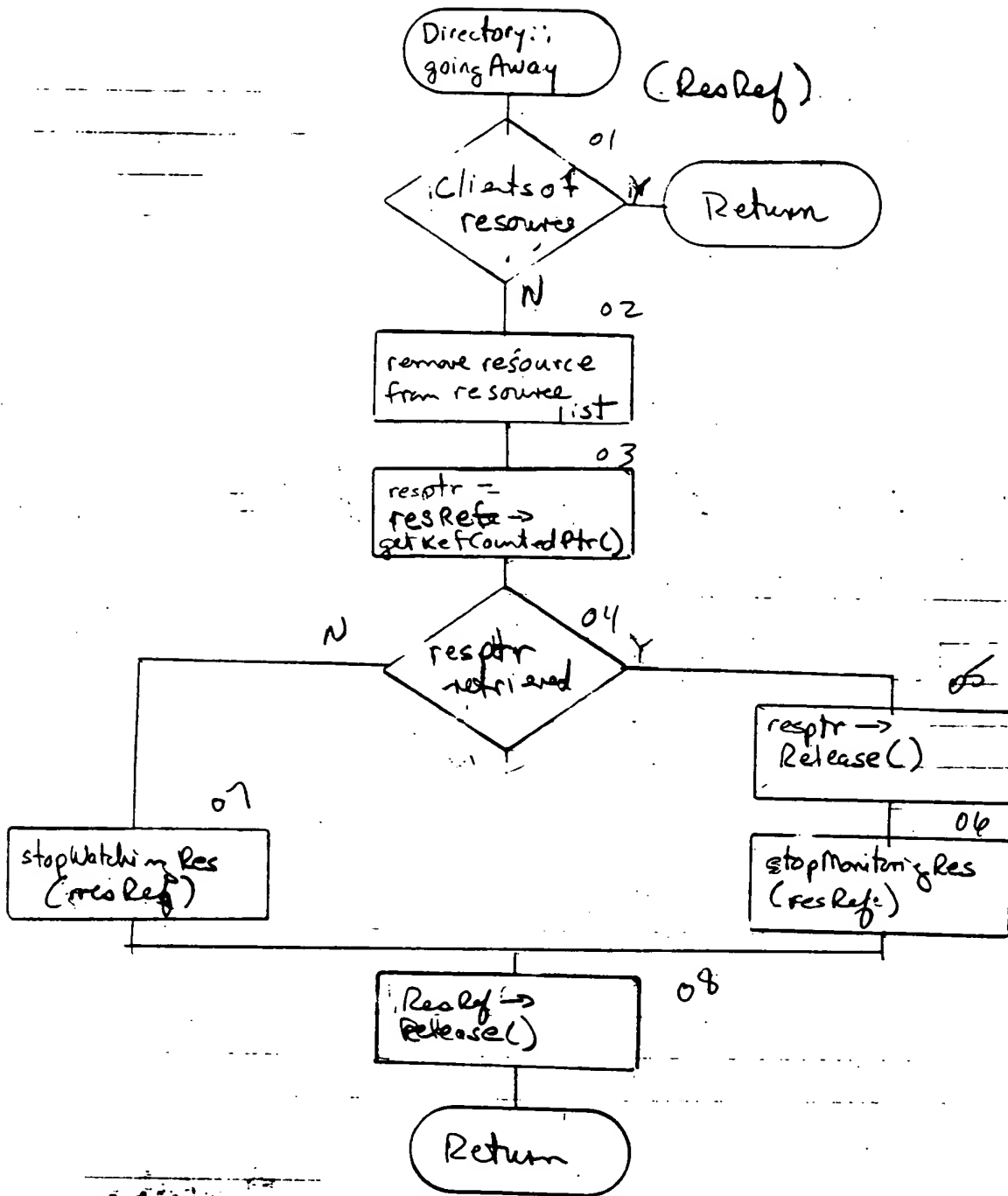


Figure 18

00000000000000000000000000000000

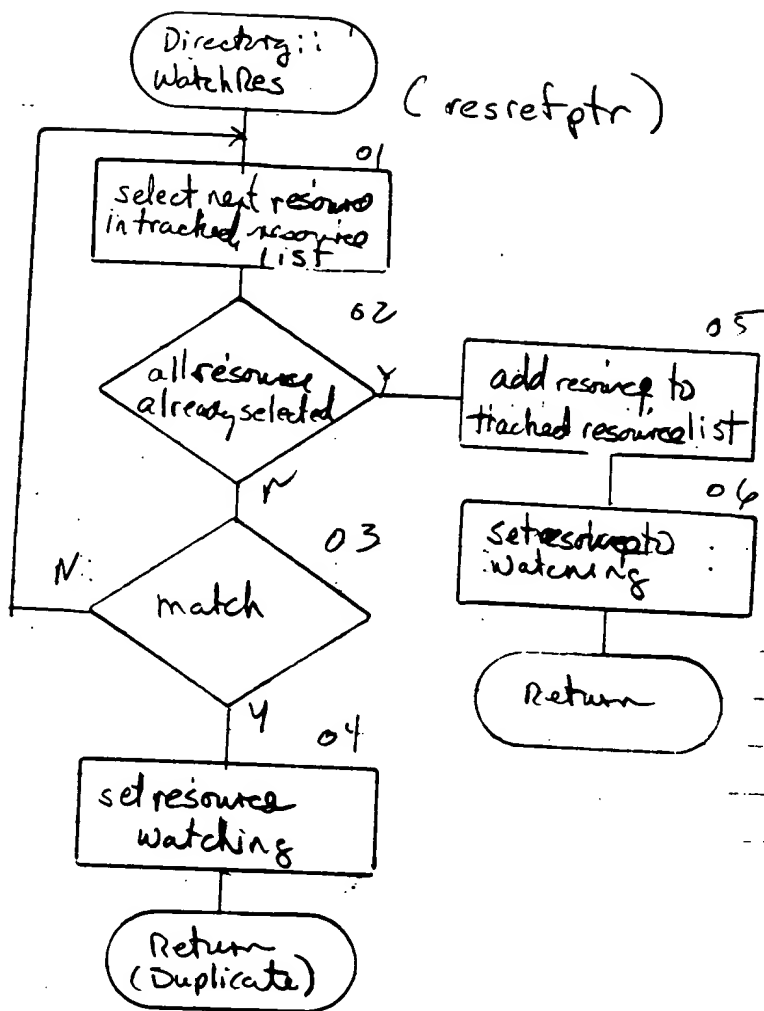


Fig. 19

Resource:
send event and
Process

0/

put event +
param on queue

02

```

graph TD
    A[ ] --> B[Processing]
    B --> C[ ]
    style A fill:none,stroke:none
    style C fill:none,stroke:none
  
```

Y

Return

2

03

Processing = True

04

processEventsAndFreeLock()

Return

Fig. 20

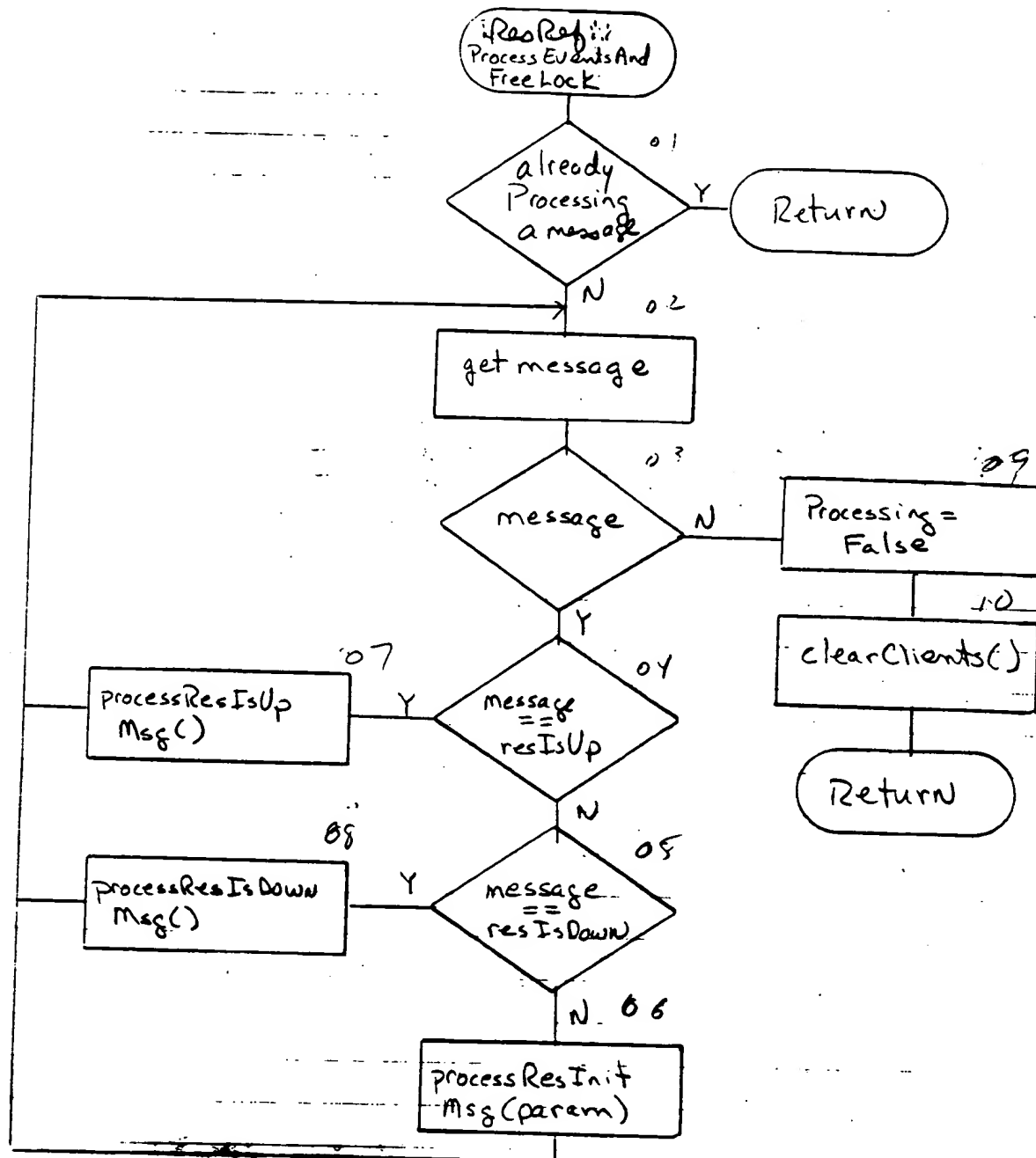
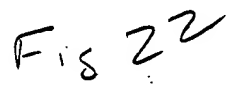


Fig 21



SECRET

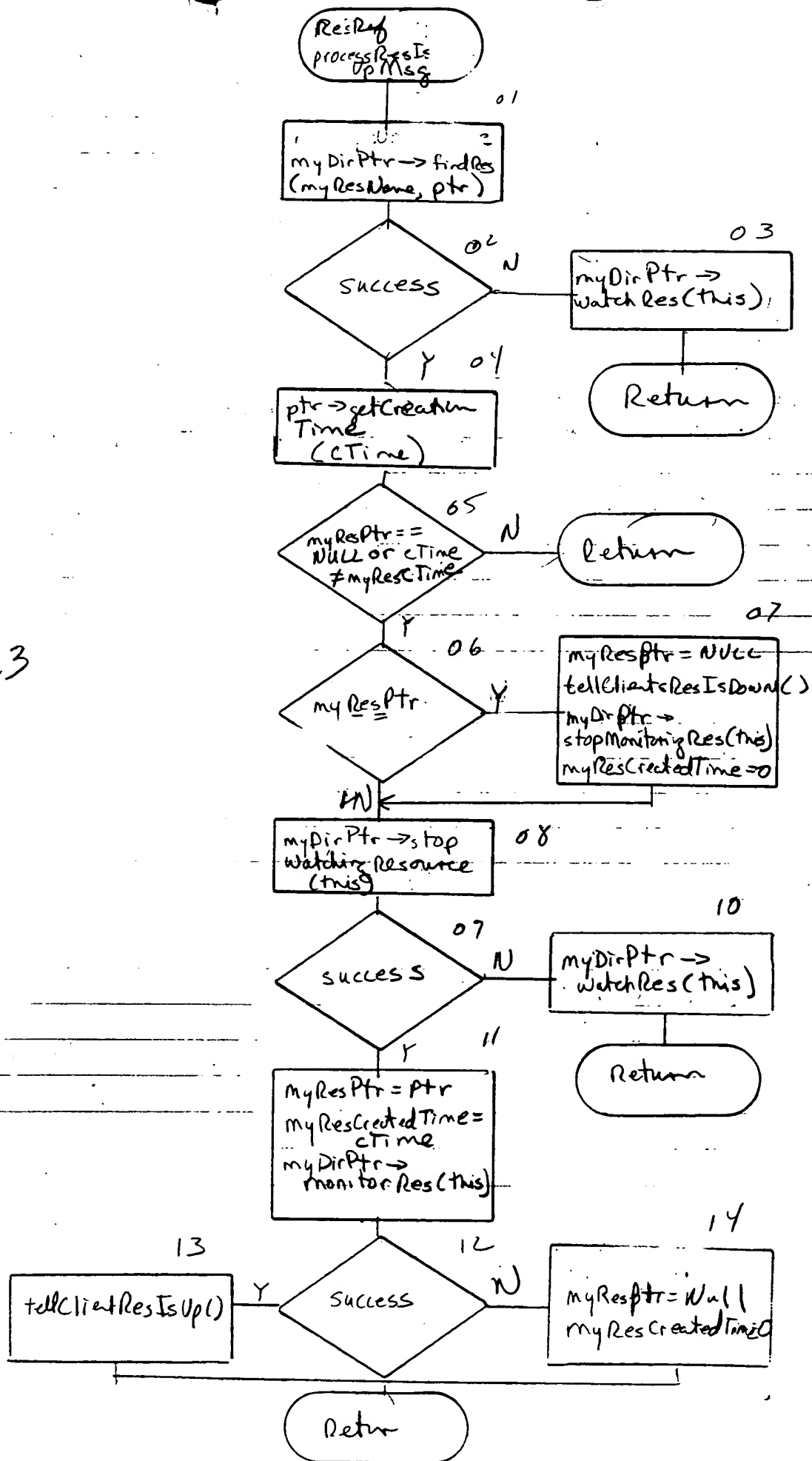
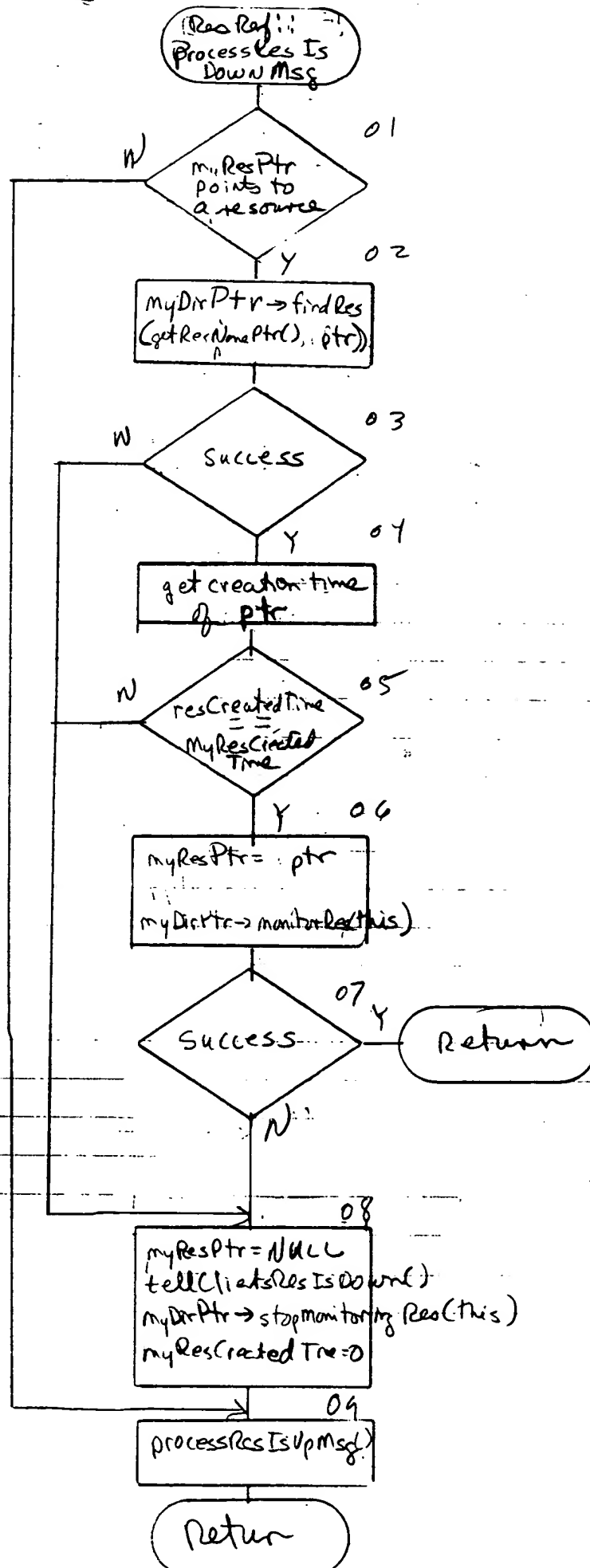


Fig 23

Fig 24



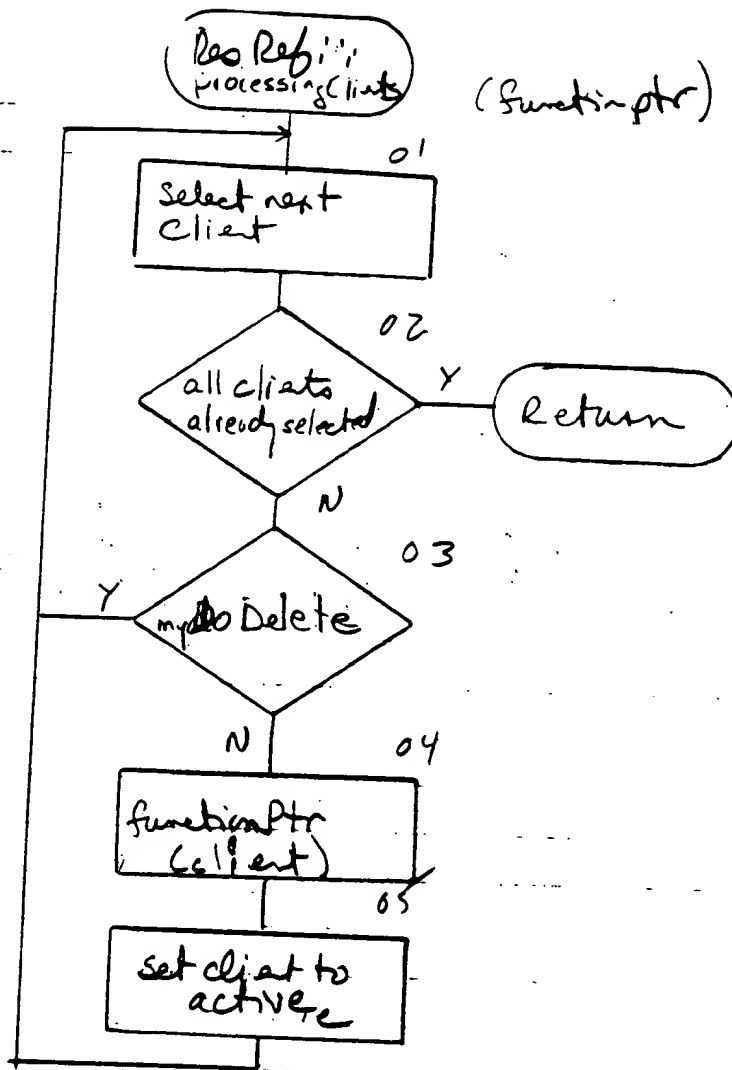


Fig 25

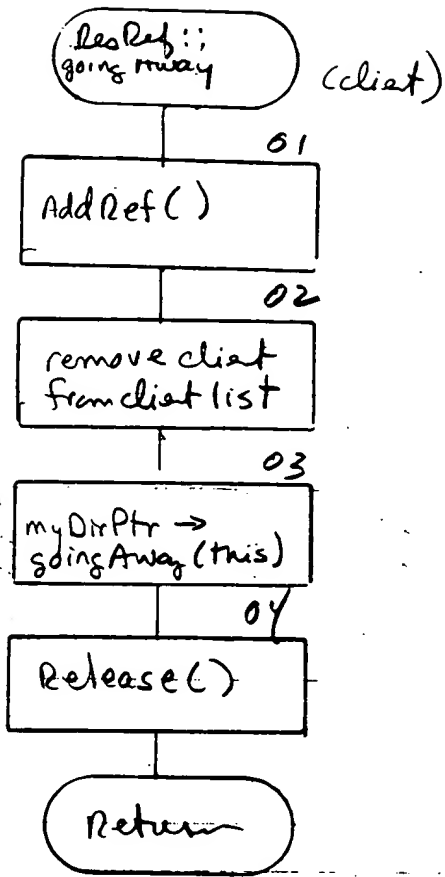
[illegible]

Fig 28

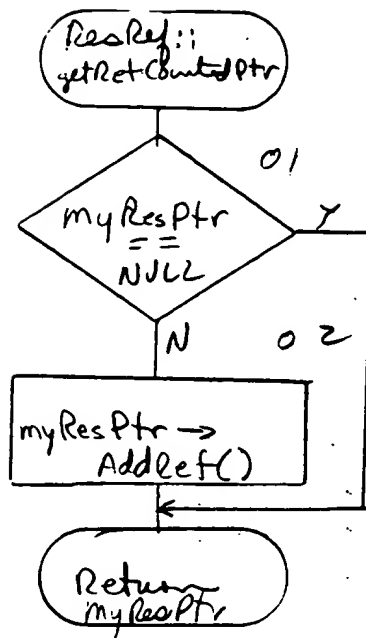
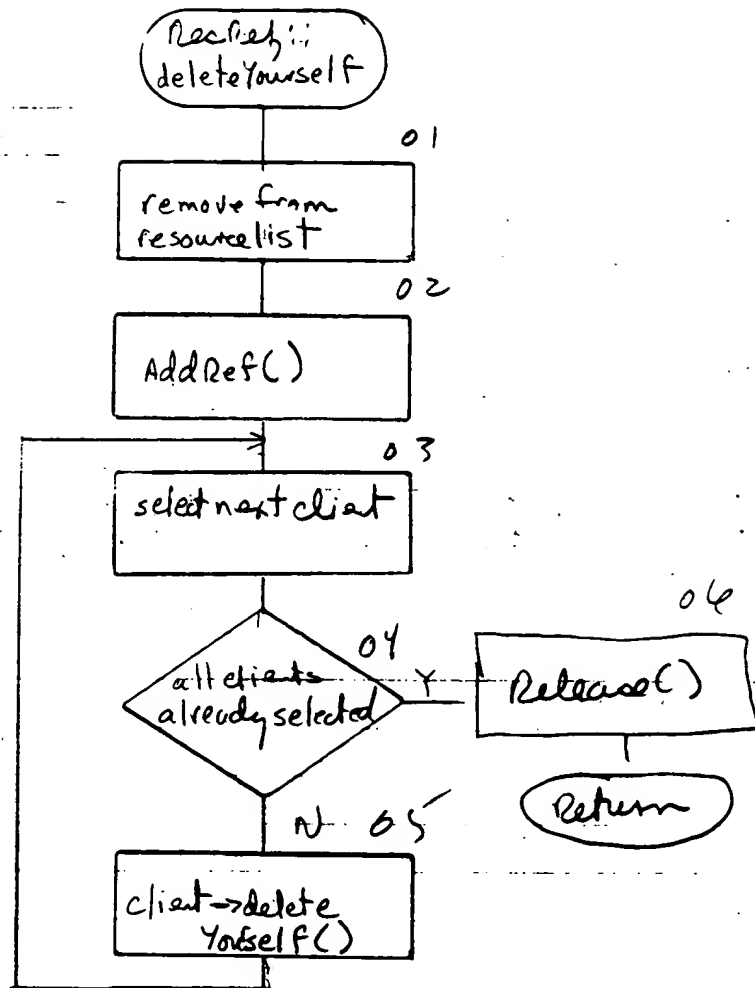


Fig 29.

SECRET



F. 8 30

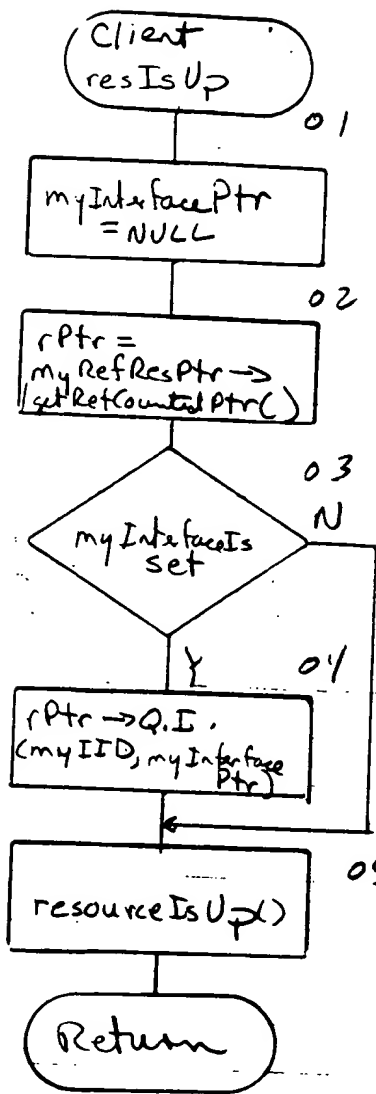


Fig 31

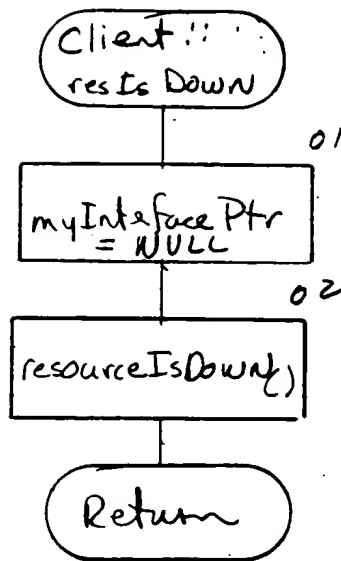


Fig 32

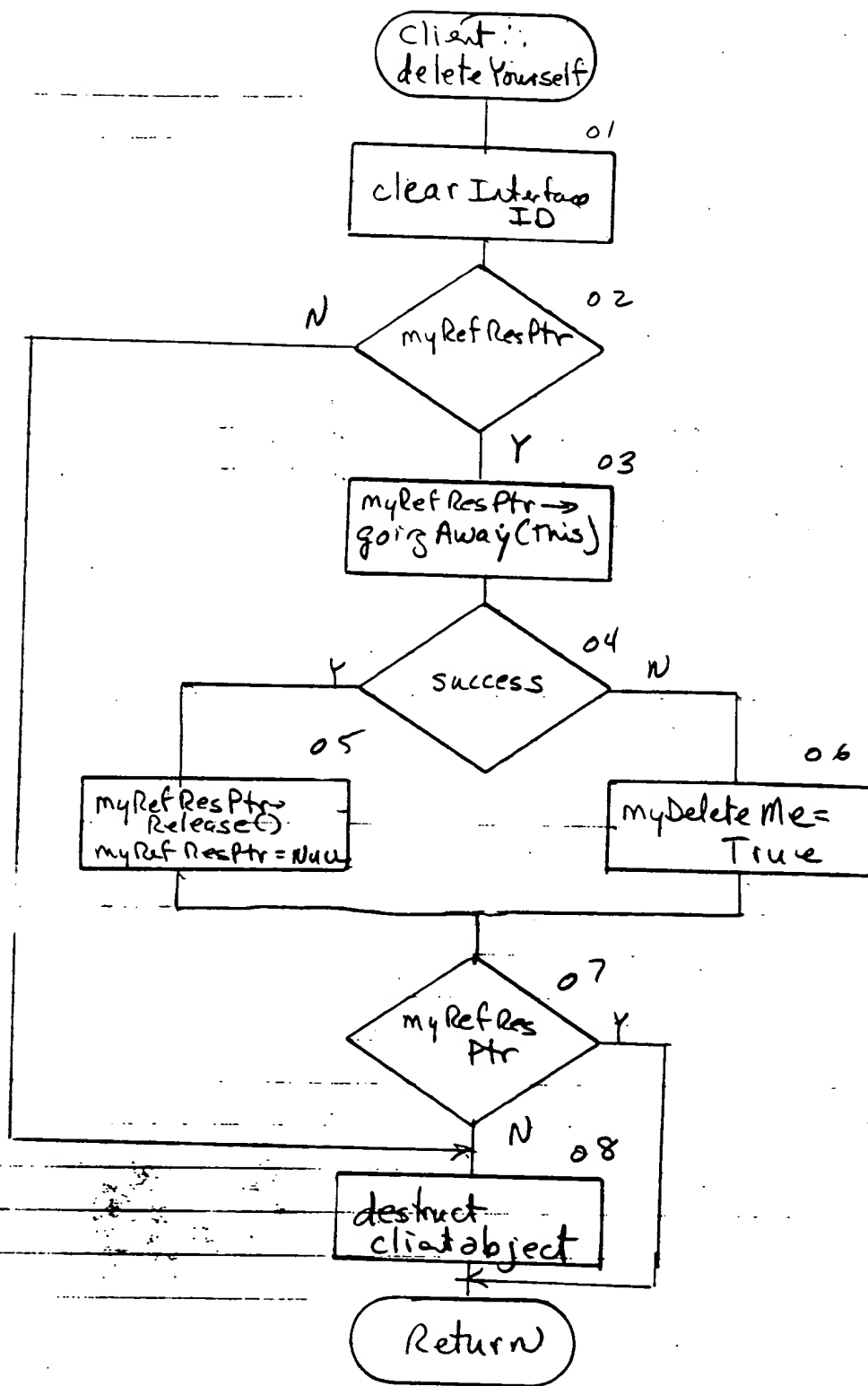


Figure 33

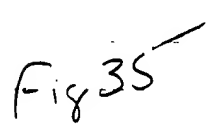
Client::
resourceIsUp

Set resource
is Up flag

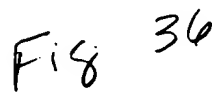
Return

34

SECRET



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99



SECRET

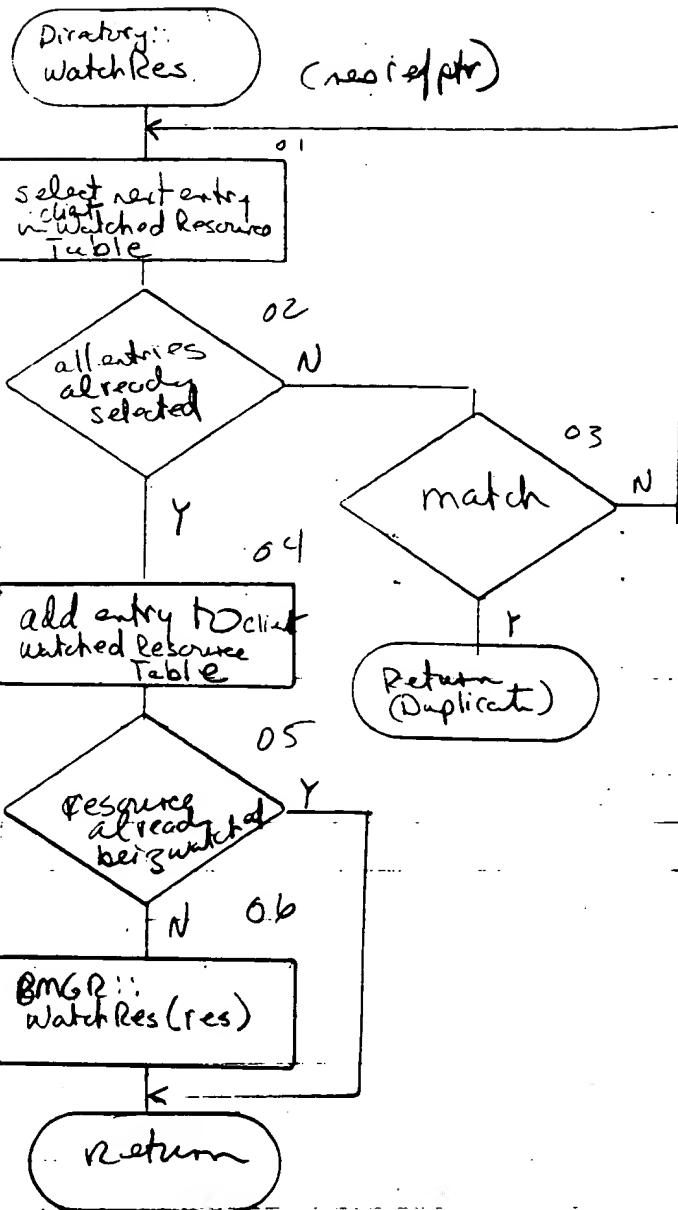


Fig 37

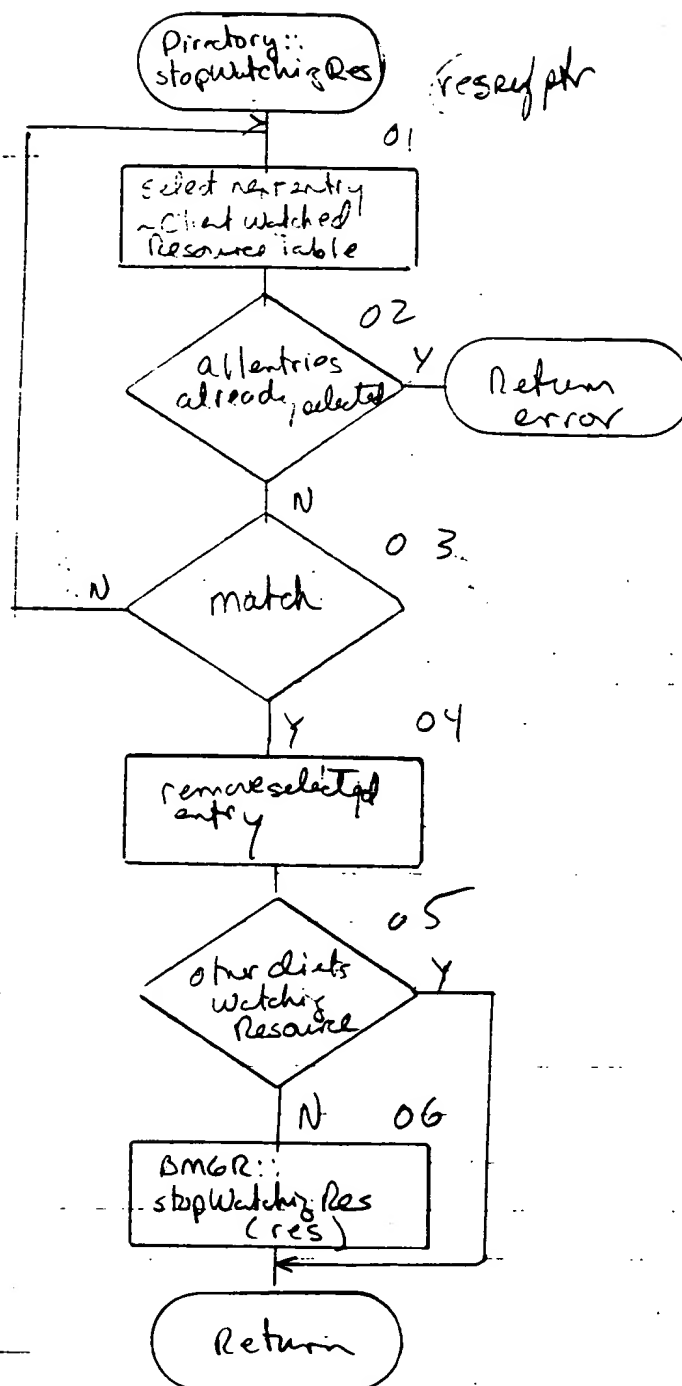
[illegible]

Fig 38

RM:: watchResIsUp (context)

38A01

locate the
context for this
resource

38A02

directly::
resIsUp (context)

Return

Figure 38A

668250" 25822E60

RM:
Client Process Is
Down

01

call BMGR::Detach
for each resource
of process

02

call directory::stop
watching Res for
all di

Return

Fig 39

66250-6522660

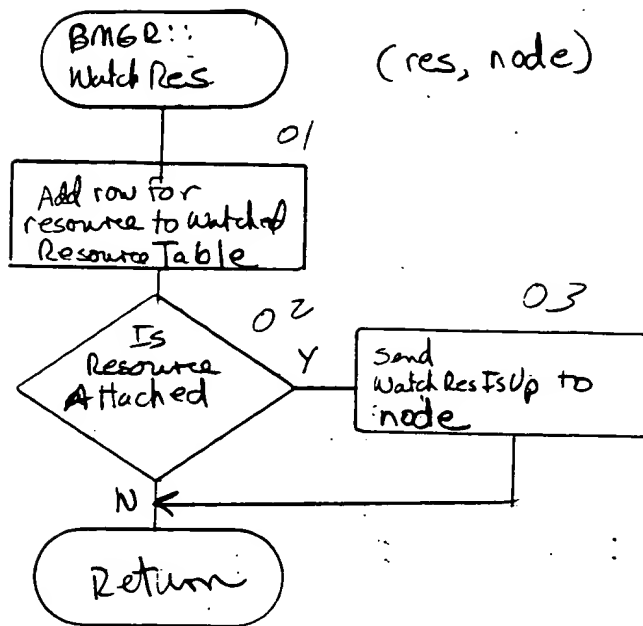


Fig 42

(node)

call Detach
foreach resource
that is on the node

call stopwatchRes
for all resources
watched by the node

Return

44

THE UNIVERSITY OF CHICAGO

Directory::
Monitor Res

(res)

01

Use passed resource ptr to identify node

02

Y

entry for
node in
connect
table

0

Server:
 Conned Client
 (Client ptr,
 client cntxt,
 server cntxt)

Q4

error

Y

05

Process Server Is
Down

06

add entry to
Client Connection
Table

07

signal to
start sending
Creative

Q4

Server::
monitors Res
(resource)

Return

Fig 45

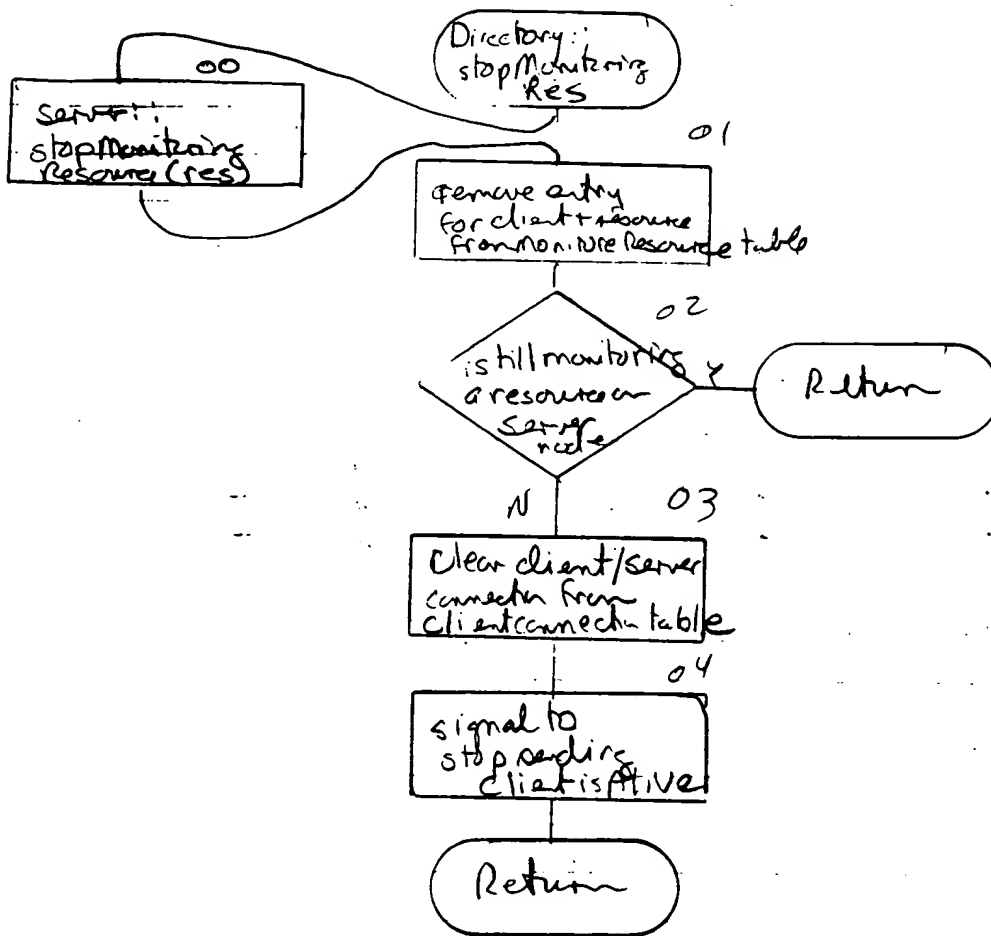


Fig 46

668250-25822660

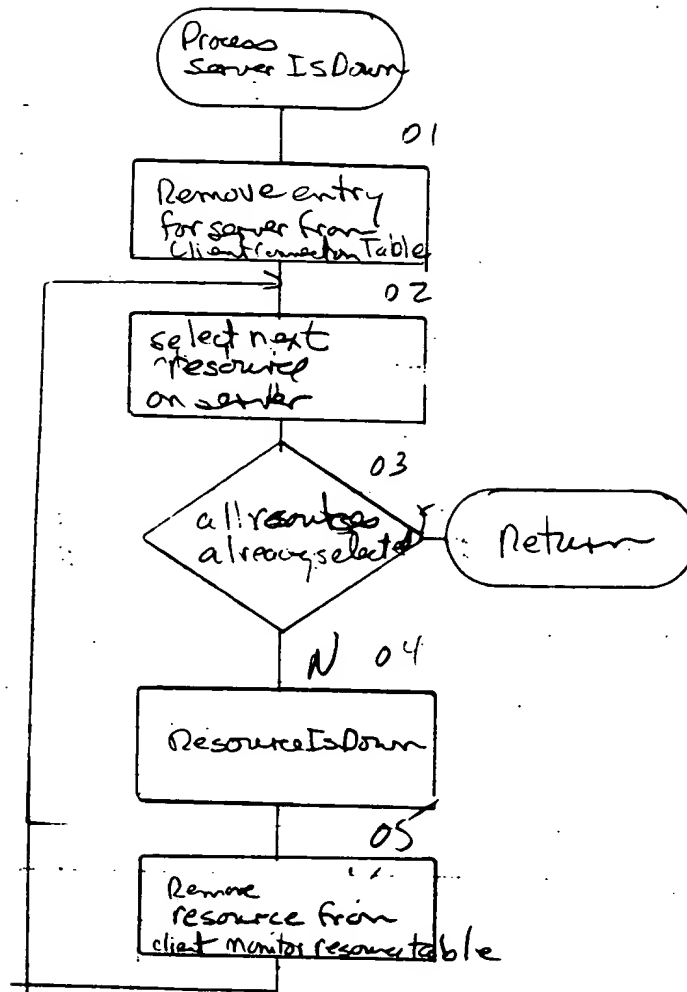


Fig 46A



Fog 47

000000000000

0032250-25822E60

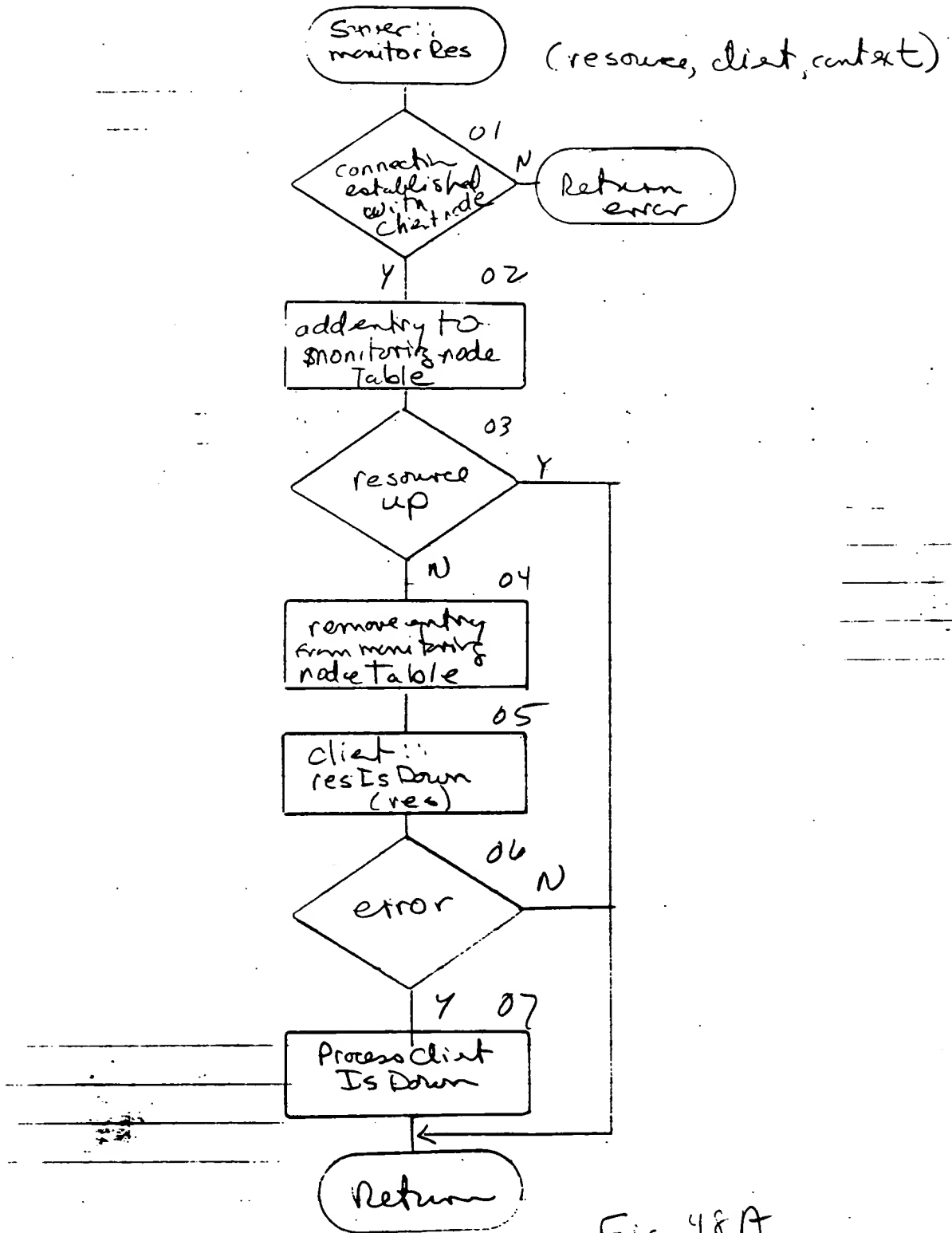


Fig 48A

00322852.052899

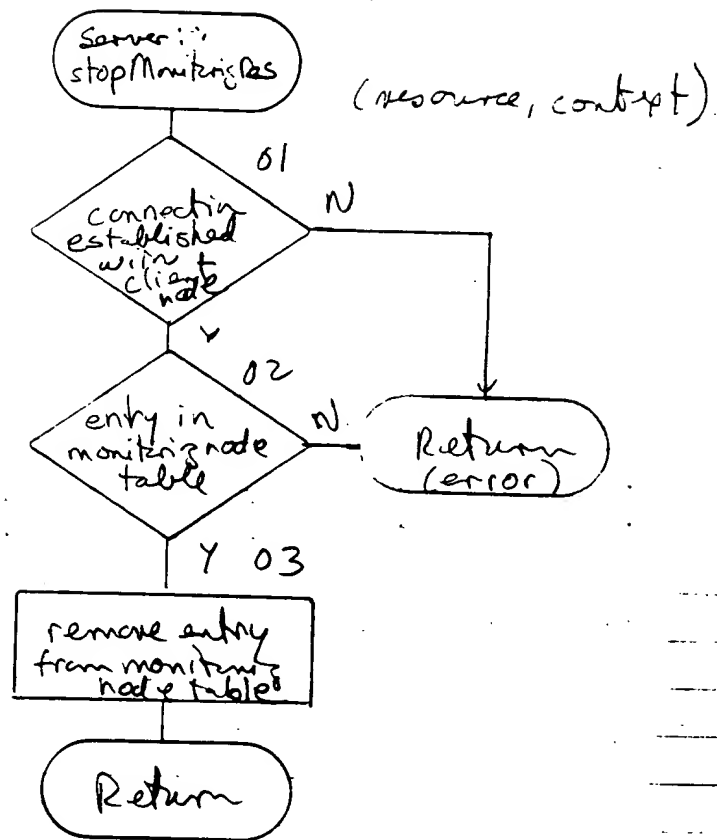
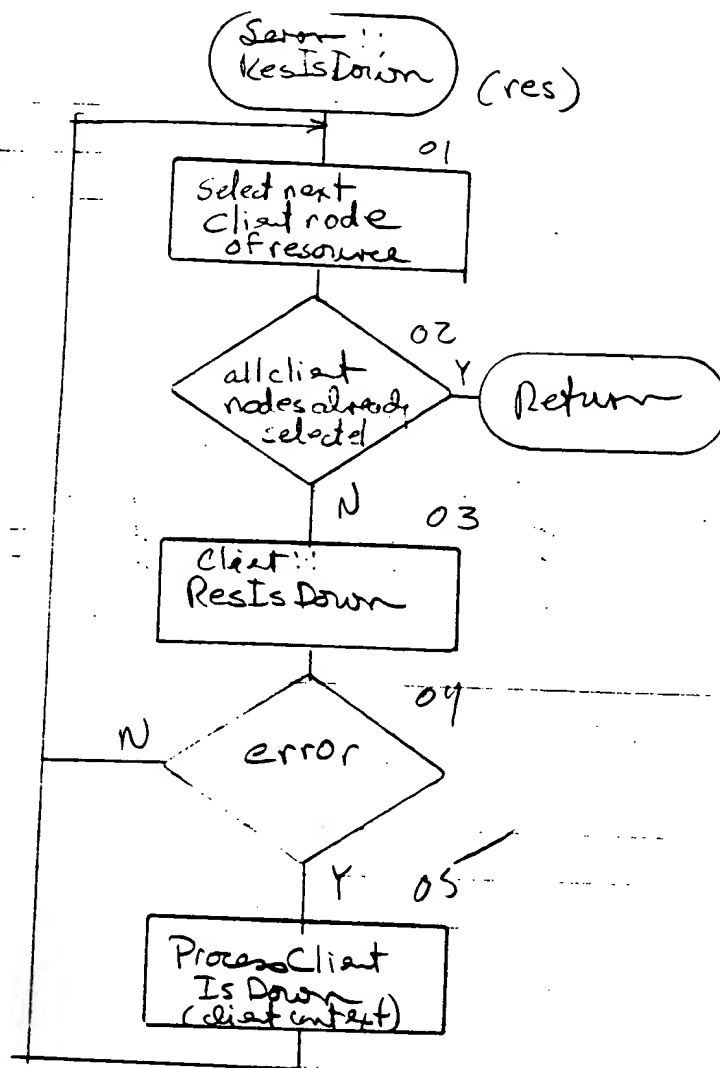
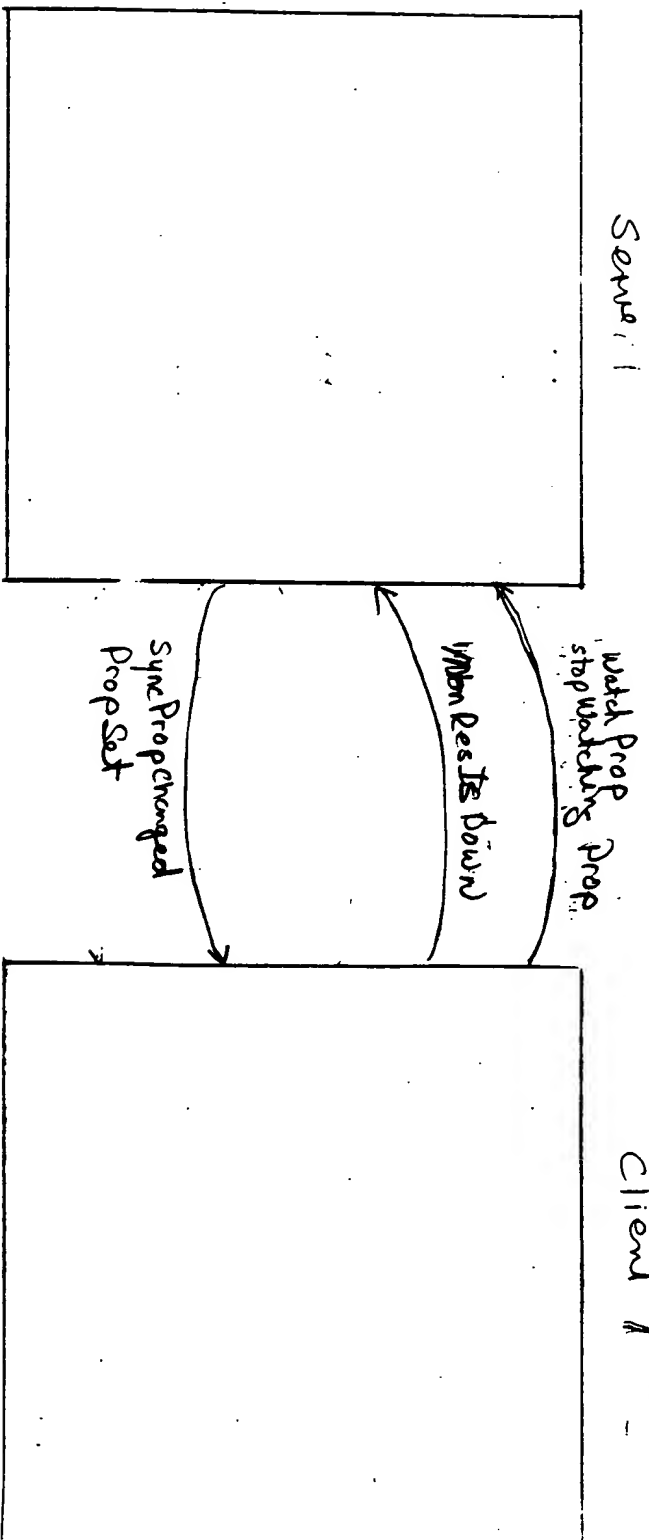


Figure 48B

Questions are asked about the following:



565

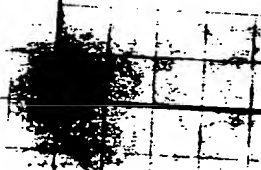


53

09322852 052849

11

1000



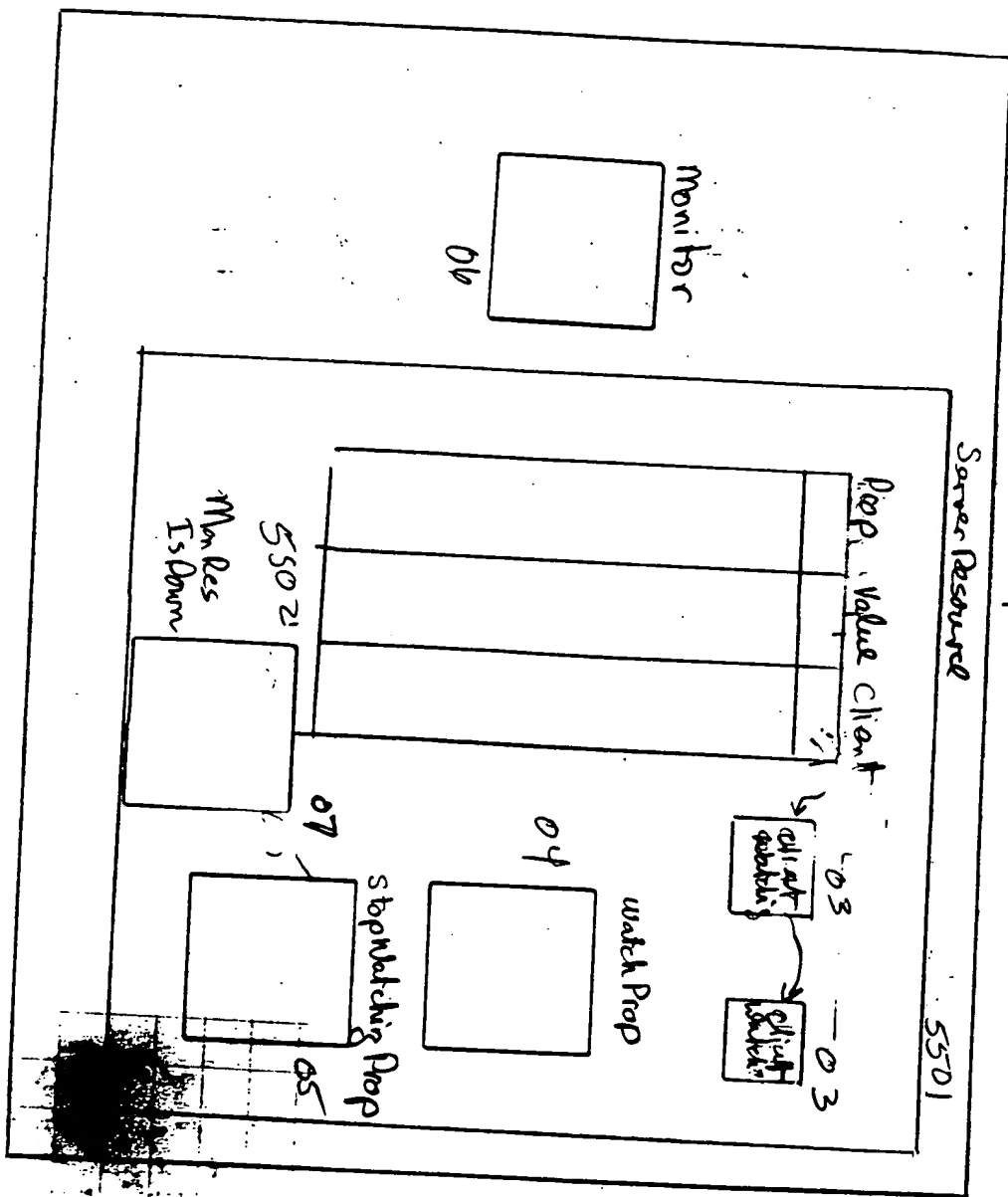
54

[illegible]

Server Mode

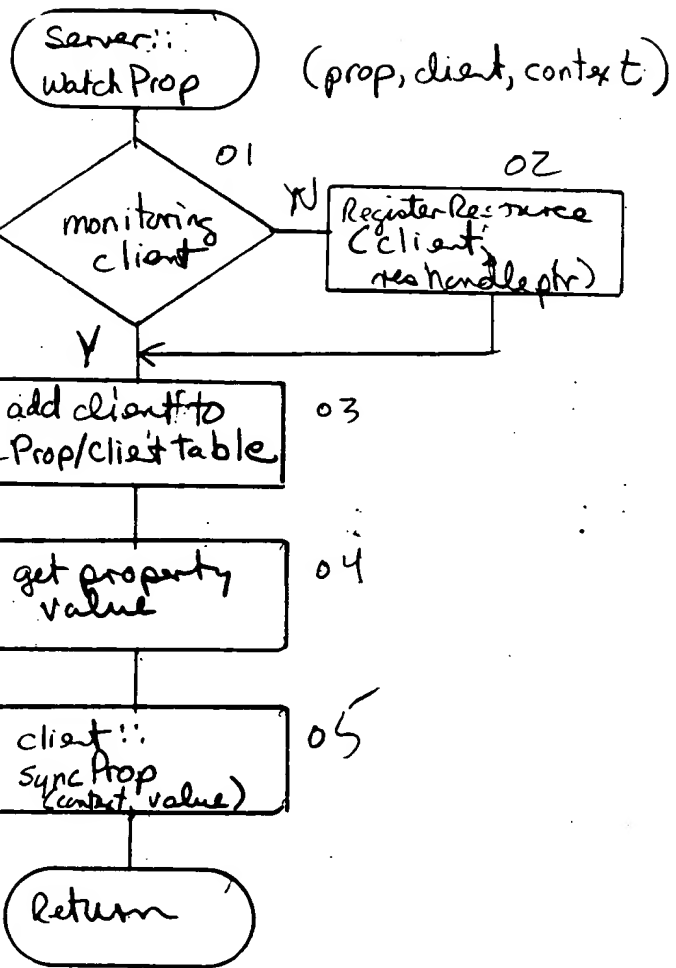
Server Resource

5501

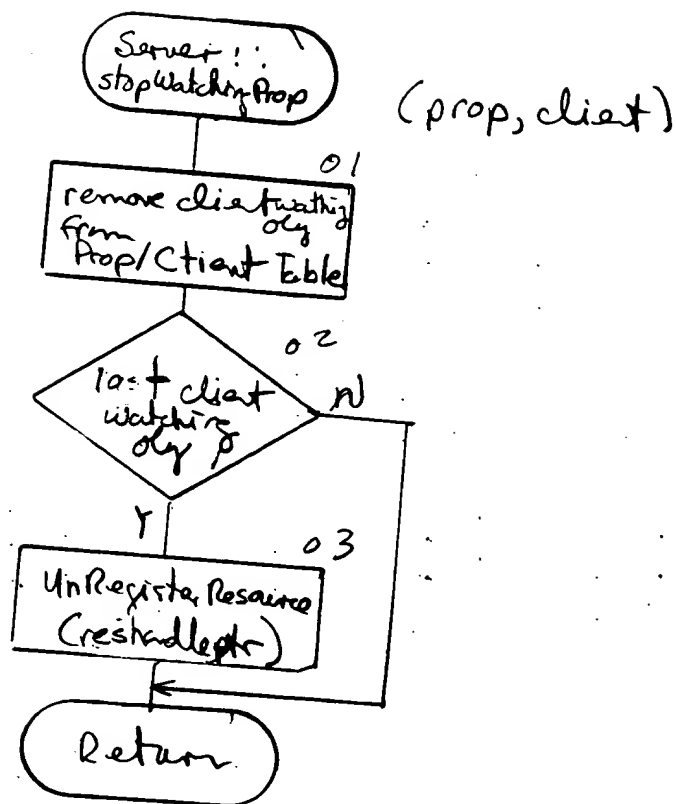


55

09322852.052899



56

[illegible]

57

Server: (client)
MrResIsDown

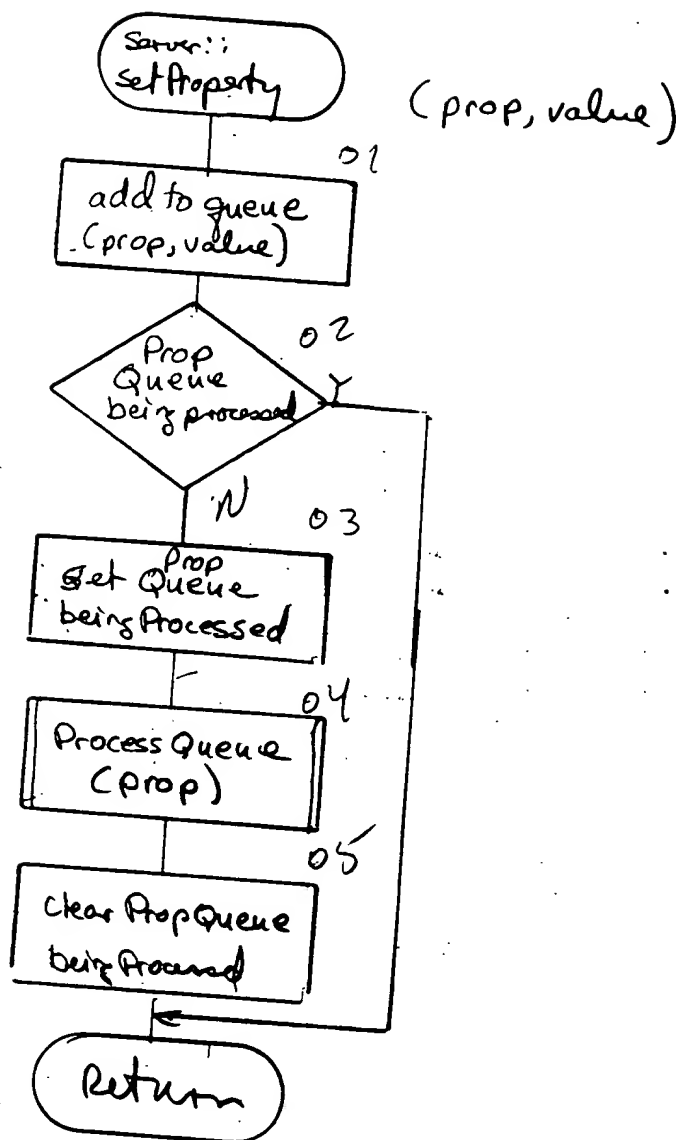
01
remove all entries
for dial from
Prop/Client Table

02
UnRegister
(client)

Return

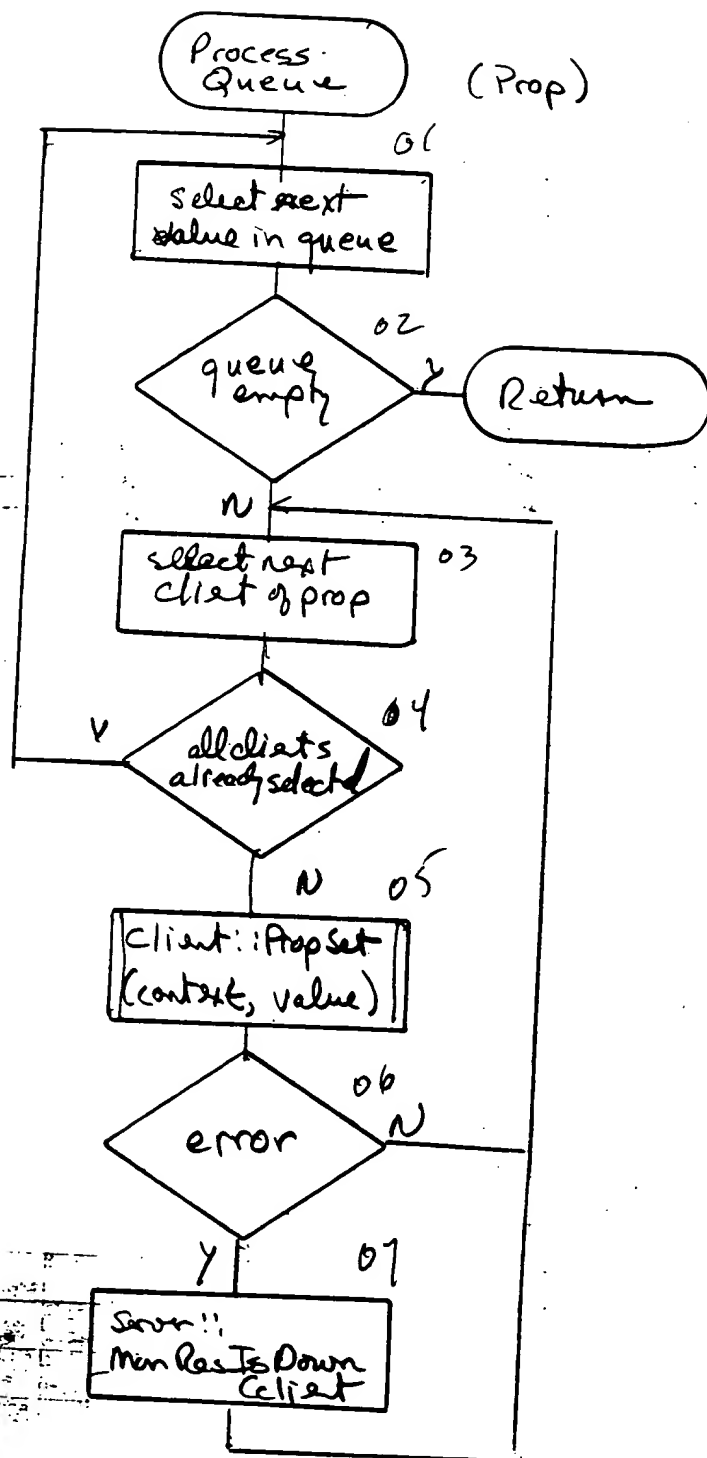
59

0522852.052899

[illegible]

59

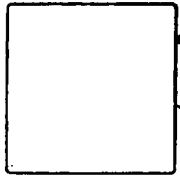
09322852.052809



Client Node

client

01

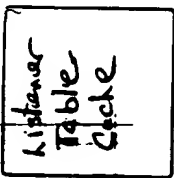
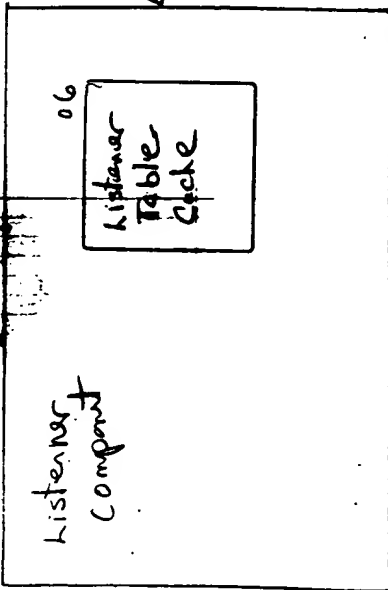


listener (type)
stop listening (type)

Event Notify (event info)

Listener
Component

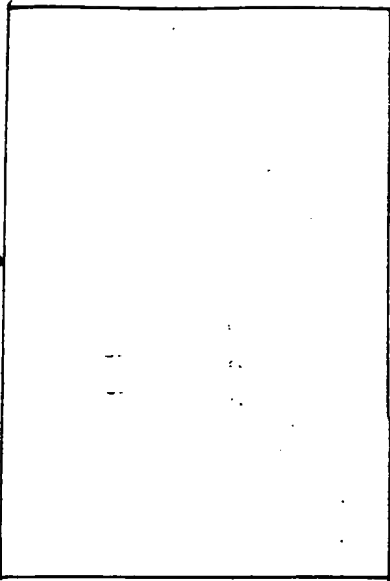
03



06

Bus State (log)

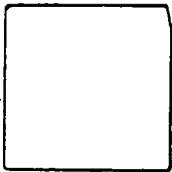
04



Post (event info)

server

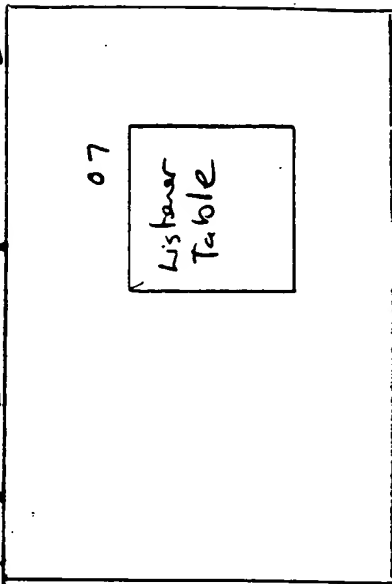
02



Event
Notify
(event info)

listener (type)
stop listening (type)
Listener
Bus Manager

Post (event info)



07

Listener
Table

Node Is
Down

Fig 63